Approved For Release 2002/08/21 · CIA-RDP89B00980R000200170058-2										
LOCKHEED AIRCRAFT CORPORATION					PROPOSAL		A. B. C - 174-1			
DATE	DATE 30 October 1964 AFFECT				WSI	PO [PROJECT X			
NAME (OF MAJOR COMPONENT WING	PART	OR LOWE	ST SUBA	SSEMBLY	į.	PART NO. 8	MODEL (OR TYPE	
TITLE OF PROPOSAL: WING PYLON DROP TANK INSTALLATION										
NATURE OF PROPOSAL:										
SEE PAGE 2										
		PLOVIO	ions on			is a contract of				
ES ESTIMATED COST AND TIME INVOLVED : ADDITIONAL FUNDING REQUIRED :										
CPI	CP ESTIMATED COST FOR KITS OR PARTS: See Page 3 thru 5 ADDITIONAL FUNDING REQUIRED: See Page 5									
ITEMS AFFECTED BY PROPOSAL ;										
SAFETY	TIVENESS ANCE PRO	OCEDURE CI	HANGE W	EIGHT OR EIGHT & ALANCE	TOOLS & SUPPORT EQUIPMENT	MAINTE NANCE PROCEDU	LIFE	FLIGHT MANUAL	MAINTE NANCE MANUAL	
EST. MAN/HRS. REQ'D. TO ACCOMPLISH CHANGE IN FIELD										
SOURCE OF PARTS FOR KIT OFAE & LAC DISPOSITION OF SPARES AFFECTED AVAILABILITY WEEKS AFTER APPROVAL See Pages 4 & 5										
NONE										
APPROVED: APPROVED: APPROVED:										

NATURE OF PROPOSAL:

Part A - AIRCRAFT REWORK

The aircraft wings will be reworked to provide mounting provisions for the pylon tanks at wing sta. 210. This rework will consist of adding two chordwise beams straddling W.S. 210 and extending from the forward wing beam (15% chord) to the aft wing beam (48% chord). These chord-wise beams will support the pylon tank and will form two sides of a "dry well" located between the beams. The "dry well" will contain the pylon tank retaining hook, the hook release actuator and the electrical disconnect. Shear pin fittings, fuel disconnect and engine bleed air disconnect fittings will be located between the chord-wise beams in the "wet" area of the wing.

Additions to the fuel system will include an engine bleed air system to transfer fuel from the drop tanks to the sump tank. This system will consist of plumbing, an air pressure regulator, a solenoid shut-off valve and two check valves. The fuel will be piped from the drop tank to the auxiliary tank feed line (main tank feed line on Models with ARS) down-stream of the existing check valve in that line. This transfer system will consist of fuel plumbing, two check valves and two pressure switches to provide cockpit indication.

The transfer system as described above will assure that drop tank fuel will be used first. The existing fuel system will remain unchanged so that depletion of drop tank fuel, jettisoning of drop tanks, or any malfunction cuasing loss of transfer pressure, will result in the basic fuel system feeding in the normal manner.

Part B - DROPPABLE PYLON TANKS

Since the pylon tanks are expendable and since total mission degradation is not serious due to the short period of time the tanks are carried, some weight and drag can be traded for a reduction in cost.

The tank selected is a modified Sargent-Fletcher fire bomb. The tank will be 100-gallon capacity complete with a cast pylon and the necessary plumbing, air and electrical provisions. The tank will be made by Sargent-Fletcher on their high production rate fire bomb tooling with only slight additional tooling required for the pylon and fire bomb modifications. This will result in minimum non-recurring costs and minimum unit price for the tanks.

The total weight change to the aircraft is anticipated not to exceed 250 pounds. The permanent veight increase will not be more than 100 pounds. It is presumed that the installation can be accomplished such that the location will not shift the aircraft c.g. and therefore, no change in ballast will be required.

Next 2 Page(s) In Document Exempt